

## Cortagine

|                      |   |
|----------------------|---|
| Cat. No.:            | HY-P2287  |
| Molecular Formula:   | C <sub>192</sub> H <sub>323</sub> N <sub>55</sub> O <sub>63</sub> S   |
| Molecular Weight:    | 4442.06   |
| Sequence:            | {Glp}-Gly-Pro-Pro-Ile-Ser-Ile-Asp-Leu-Ser-Leu-Glu-Leu-Leu-Arg-Glu-Val-Leu-Glu<br>-Met-Glu-Arg-Ala-Glu-Gln-Leu-Ala-Gln-Gln-Ala-Ala-Asn-Asn-Arg-Leu-Leu-Leu-<br>Asp-Thr-Ala-NH <sub>2</sub> |
| Sequence Shortening: | {Glp}GPPISIDLSLELLREVLEMERAEQLAQQAANNRLLLDTA-NH <sub>2</sub>  |
| Target:              | CRFR  |
| Pathway:             | GPCR/G Protein  |
| Storage:             | Please store the product under the recommended conditions in the COA.   |

### BIOLOGICAL ACTIVITY

|                           |  |
|---------------------------|--|
| Description               | Cortagine is a specific <b>corticotropin-releasing factor receptor subtype 1 (CRF1)</b> agonist with an IC <sub>50</sub> of 2.6 nM for rCRF1. Cortagine is an anxiolytic and antidepressive drug in the mouse model <sup>[1]</sup> . |
| IC <sub>50</sub> & Target | IC <sub>50</sub> : 2.6 nM (rCRF1) <sup>[1]</sup>   |
| In Vitro                  | Cortagine inhibits rCRF1 (EC <sub>50</sub> =0.18 nM) and mCRF <sub>2β</sub> (EC <sub>50</sub> =16 nM) in transfected HEK-293 cells <sup>[1]</sup> .  |
| In Vivo                   | Cortagine (30, 100, 300 ng; i.c.v.) significantly decreases the percent time spent in the open arms and number of open arm entries of the elevated plus-maze (EPM) test in nine-week-old male C57BL/6J mice <sup>[1]</sup> .         |

### REFERENCES

[1]. Hossein Tezval, et al. Cortagine, a Specific Agonist of Corticotropin-Releasing Factor Receptor Subtype 1, Is Anxiogenic and Antidepressive in the Mouse Model. Proc Natl Acad Sci U S A. 2004 Jun 22;101(25):9468-73.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA